Product number: 361001 / 361051



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name TERRAGREEN ZF ENVIRONMENTAL FINISH

 Product number
 361001 / 361051

 Revision date
 23-Jul-2007

Company information Brulin & Company, Inc.

P.O. Box 270

Indianapolis, IN 46206 US

www.Brulin.com

Emergency CHEMTREC 1-800-424-9300

General information Phone: 317-923-3211 Fax: 317-925-4596

2. Hazards Identification

Emergency overview Harmful in contact with eyes. Vapors may cause drowsiness and dizziness. This product is

not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Prolonged exposure

may cause chronic effects.

Potential short term health effects

Eyes Health injuries are not known or expected under normal use. Contact with eyes may cause

irritation. Avoid contact with eyes.

Skin Health injuries are not known or expected under normal use.

Inhalation Health injuries are not known or expected under normal use. Prolonged inhalation may be

harmful.

Ingestion Health injuries are not known or expected under normal use. May be harmful if swallowed.

Potential environmental effects This material is not expected to be harmful to aquatic life.

3. Composition / Information on Ingredients

Hazardous component(s)	CAS#	Percent
Ethanol,2-(2-ethoxyethoxy)	111-90-0	< 2.5
Propanol, (2-Methoxymethylethoxy)-	34590-94-8	< 2.5
2-Butoxy-ethanol Phosphate	78-51-3	< 10

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if

irritation develops or persists.

Skin contact Wash off with soap and water. Get medical attention if irritation develops or persists.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion Drink water as a precaution. Have victim rinse mouth thoroughly with water. Do not induce

vomiting without medical advice. If ingestion of a large amount does occur, seek medical

attention.

General advice Call a physician if symptoms develop or persist. If you feel unwell, seek medical advice

(show the label where possible).

5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing media Use methods for the surrounding fire.

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6. Accidental Release Measures

Personal precautions Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep unnecessary personnel away.

Methods for containment Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up Never return spills in original containers for re-use.

Large Spills: Absorb with earth, sand or other non-combustible material and transfer to

containers for later disposal. Dike far ahead of liquid spill for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated

surface thoroughly.

7. Handling and Storage

Handling Handle and open container with care. Avoid contact with eyes.

Storage Keep in a well-ventilated place. Keep at temperatures between 4 and 43°C. Keep out of

the reach of children.

8. Exposure Controls / Personal Protection

Exposure guidelines

ACGIH - Threshold Limits Values - Short Term Exposure Limits (TLV-STEL)

Propanol, 34590-94-8 150 Ppm STEL

(2-Methoxymethylethoxy)-

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)
Propanol, 34590-94-8 100 Ppm TWA

(2-Methoxymethylethoxy)-

ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Propanol, 34590-94-8 CNS impairment; eye and upper respiratory tract irritation

(2-Methoxymethylethoxy)-

OSHA - Final PELs - Skin Notations

Propanol, 34590-94-8 prevent or reduce skin absorption

(2-Methoxymethylethoxy)-

OSHA - Final PELs - Time Weighted Averages (TWAs)

Propanol, 34590-94-8 100 Ppm TWA; 600 mg/m3 TWA

(2-Methoxymethylethoxy)-

Engineering controls Use general ventilation.

Personal protective equipment

Eye / face protection Wear chemical goggles. Avoid contact with eyes.

Skin protection Not normally needed. Wear impervious gloves for prolonged contact.

concentrations above the exposure limit they must use appropriate certified respirators.

General hygeine considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Not available
Color Opaque white
Form Liquid.
Odor mild acrylic
Odor threshold Not available

pH 8

Freezing point

Boiling point

Not available

Not available

Flash point

Flammability limits in air, lower, %

Not available

by volume

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Flammability limits in air, upper, %

by volume

Not available

Not available Vapor pressure Vapor density Not available

Specific gravity 1.031

Solubility (H2O) Not available VOC (Weight %) 4.55 %

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

Conditions to avoid Do not freeze. Incompatible materials None known. Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Acute effects Acute LD50: 38629 mg/kg, Rat, Oral

Local effects Eye irritation

Chronic effects Repeated absorption may cause disorder of central nervous system, liver, kidneys and

blood. Prolonged exposure may cause chronic effects.

Further information Symptoms may be delayed.

12. Ecological Information

Components of this product have been identified as having potential environmental **Ecotoxicity**

concerns. This material is not expected to be harmful to aquatic life.

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations. This product, in its present state,

when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Department of Transportation (DOT) Requirements NON-BULK

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

All components are on the U.S. EPA TSCA Inventory List. **US federal regulations**

CERCLA/SARA - Section 313 - Emission Reporting

1.0 Percent de minimis concentration (applies to R-(OCH2CH2)n-OR' ethers, where n Ethanol,2-(2-ethoxyethoxy) 111-90-0

= 1,2, or 3, R=alkyl C7 or less or R = phenyl or alkyl subst. phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or

1.0 Percent de minimis concentration (applies to R-(OCH2CH2)n-OR' ethers, where n 34590-94-8 Propanol. = 1,2, or 3, R=alkyl C7 or less or R = phenyl or alkyl subst. phenyl, R' = H or alkyl C7

(2-Methoxymethylethoxy)or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or

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Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

International regulations The product is classified and labelled in accordance with EC directives or respective

national laws.

State regulations This product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

16. Other Information

HMIS rating

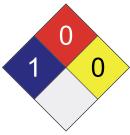
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Physical Hazard 0

Personal Protection

NFPA codes



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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage,

transportation, disposal and release.